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	SE	RIAL NUMBER	FILING DATE	FIRST NAM	MED INVENTOR		ATTORNEY DOCKET NO.
		07/655,857	02/15/9	71 TROUNSON		J	018420-001 EXAMINER
		GEORGE MAS	ON BLDG.	ER & MATHIS	23M1	BROWN,	PAPER NUMBER
	isisad	P.O. BOX 1 ALEXANDRIA communication from the SIONER OF PATENTS), VA 22313 examiner in charge of			2306 DATE MAILED:	04/17/93
This application has been examined Responsive to communication filed on							
resiliure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133							
Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:							
	 Notice of References Cited by Examiner, PTO-892. Notice of Art Cited by Applicant, PTO-1449. Information on How to Effect Drawing Changes, PTO-1474. Notice of Informal Patent Application, Form PTO-152. Information on How to Effect Drawing Changes, PTO-1474. 						
Part II SUMMARY OF ACTION							•
	1. A Claims						
		Of the above	/e, claims			ar	e withdrawn from consideration.
:	2. 🗆	Claims					have been cancelled.
:	3. 🗵	Claims	4 and	7-10			are allowed.
	4. 🔼	Claims	1-3,11-	13,15 and	18-23	N-00	are rejected.
	5. 🗆	Claims					are objected to.
٠.	в. 🗆						tion or election requirement.
;	7. 🗆	This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.					
8	s. 🗆			nse to this Office action.			
8	e. 🗆	The corrected or s	ubstitute drawings i	nave been received on ble (see explanation or Notic	ce re Patent Drawin		F.R. 1.84 these drawings
10). 🗆	The proposed additional or substitute sheet(s) of drawings, filled on has (have) been approved by the examiner disapproved by the examiner (see explanation).					
11	ı. 🗆	The proposed draw	wing correction, filed	d on,	has been 🔲 appi	roved. disappr	oved (see explanation).
12	ı. 🗆	Acknowledgment is made of the claim for priority under U.S.C. 119. The certified copy has Deen received Deen received					
				rial no.			
13	r 🗆	Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.					
14	. 🗆	Other					

EXAMINER'S ACTION

PTOL-326 (Rev. 9-89)

Serial No. 07/655,857 Art Unit 2306

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 1-3 are rejected under 35 U.S.C. § 102(b) as being anticipated by Hyatt.

As per claims 1-3, Hyatt discloses in figure 1 and column 6 the limitations set forth in these claims.

3. Claims 1-3 are rejected under 35 U.S.C. § 103 as being unpatentable over Daggett in view of Hyatt.

As per claims 1-3, Daggett discloses a digital position and velocity feedback system for a multi-axis machine which only differs from these claims by not using a single active processor to the control the multi-axis machine. Hyatt discloses a computer system architecture wherein a microcomputer, single active processor, is used for direct interaction with a machine to enhance communication and to reduce special purpose interface circuitry.

It would have been obvious to one of ordinary skill in the control art to replace the multi-computational source as disclosed by Daggett with the single active processor as disclosed by Hyatt for the purpose of having direct interaction with a machine which enhances communication and reduces special purpose interface circuitry.

4. Claims 11-13, 15, and 18-23 are rejected under 35 U.S.C. § 102(b) as being anticipated by Gutman et al.

As per claims 11-13, 15, and 18-23, Gutman discloses an interactive spline function controlled positioning mechanism such

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as a machine tool. A movable element of the machine tool is driven about a plurality of axes under computer control along a path formed by a plurality of sections. Each of the path section is represented in parametric form by spline function. The element is driven through a plurality of intermediate positions approximating positions on path sections. An interactive recursive algorithm permits efficient computation of the intermediate positions.

- 5. Claims 4 and 7-10 are allowable over the prior art of record.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Brown whose telephone number is (703) 305-9763.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-9749.

JERRY SMITH
SUPERVISORY PATENT EXAMINER
ART UNIT 236

Tom Brown April 14, 1993